

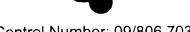
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APPLICATION NO	HENG DAIL	FIRST NAMED INVENTOR	ATTORNEY DOCKLENO	CONTRMINION NO
ON NORTH	004 300 2000 f	Lacilla Stemaa	St. S.J. i. Joseph	5928
2292 75	(90) (i3-25-2003)			
BIRCH STEWART KOLASCH & BIRCH			EXAMINER	
PO BOX 747 FALLS CHURG	CH, VA 22040-0747		DIBRINO, MARIANNE NMN	
			ARTUNII	PAPER NUMBER
			1644	11
			DATE MAILED: 03-25-2003	/1

Please find below and/or attached an Office communication concerning this application or proceeding.

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,	Application No.	Applicant(s)					
	09/806,703	STEINAA ET AL.					
Office Action Summary	Examiner	Art Unit					
	DiBrino Marianne	1644					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a rep. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b). Status	.136(a). In no event, however, may a ply within the statutory minimum of th d will apply and will expire SIX (6) MC te, cause the application to become A	reply be timely filed irreply be timely will be considered timely. INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 30	April 2001 .						
2a) This action is FINAL . 2b) ▼ T	This action is FINAL . 2b) ☑ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)[-] Claim(s) 1-83 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
	6) Claim(s) is/are rejected.						
	7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-83</u> are subject to restriction and/or election requirement. Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) ☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice o	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)					



Application/Control Number: 09/806,703

Art Unit: 1644

DETAILED ACTION

1. Applicant's amendment filed 4/30/01 is acknowledged and has been entered.

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

- I. Claims 1-34, 54-63, drawn to a method of down regulating cells expressing a cell-associated polypeptide antigen in an animal comprising administering a polypeptide antigen analogue
- II. Claims 35-47, drawn to a method of down regulating cells expressing a cell-associated polypeptide antigen in an animal comprising administering a microorganism or virus carrying a nucleic acid sequence which encodes a polypeptide antigen analogue
- III. Claims 48-50, drawn to a method for selection of an immunogenic analogue of a cell-associated polypeptide analogue
- IV. Claims 51-53, drawn to a method for the preparation of a cell producing an analogue of a cell-associated peptide antigen
 - V. Claims 64-66,73, drawn to an analogue of human PSM and composition thereof
 - VI. Claims 67-69, drawn to an analogue of human Her2
 - VII. Claims 70-72, drawn to an analogue of human/murine FGF8b
- VIII. Claims 74-83, drawn to a nucleic acid, vector and transformed cell comprising the nucleic acid encoding a polypeptide analogue of human PSM and composition thereof and method of transforming the cell.





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3. The inventions listed as Groups I-VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Claim 1 of the instant application does not provide a technical feature that is distinguished over the prior art, as evidenced by WO 95/05849 (reference provided by Applicant).

WO 95/05849 teaches a method for the modulation of self-proteins by inserting one or more foreign T cell epitopes into self-proteins (especially claim 1 of the reference). The skilled artisan at the time the invention was made was aware that self proteins are non-immunogenic and epitopes of the said proteins are presented by Class I MHC molecules expressed on the surface of antigen presenting cells (APC). Although WO 95/05849 teaches insertion of Th epitopes, one of ordinary skill in the art at the time the invention was made was would have been aware that T cell help is also required for the production of CTL from CTL precursors. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have also included CTL epitopes in order to obtain an immune response that utilized both the humoral and cell-mediated arms of the system, i.e., the said method comprising effecting simultaneous presentation by an APC of a CTL epitope and a Th epitope.

Therefore, because claim 1 does not provide a special technical feature, the instant invention lacks an inventive step and therefore lacks Unity of Invention.

4. If Applicant elects one of Groups V-VII, Applicant is further required to (1) elect a single disclosed species (a *specific analogue that includes a specific T cell epitope*, for example, a specific SEQ ID NO) to which claims would be restricted if no generic claim is finally held to be allowable and (2) to list all claims readable thereon including those subsequently added.

These species are distinct because their structures are different.

5. If Applicant elects one of Groups I-IV, Applicant is further required to (1) elect a single disclosed species of polypeptide analogue (Group I or Group III), or nucleic acid molecule encoding a polypeptide analogue (Group II or Group IV) to be used in the claimed method, (a *specific analogue that includes a specific T cell epitope*, for example, a specific SEQ ID NO) to which claims would be restricted if no generic claim is finally held to be allowable and (2) to list all claims readable thereon including those subsequently added.

These species are distinct because their structures are different.

6. Applicant is required under 35 U.S.C. § 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.



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- 7. Applicant is advised that a response to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.
- 8. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 C.F.R. § 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. M.P.E.P. § 809.02(a).
- 9. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. § 103 of the other invention.
- 10. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.
- 9. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).
- 11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marianne DiBrino whose telephone number is 703-308-0061. The examiner can normally be reached on Monday and Thursday from 11 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan, can be reached on (703) 308-3973. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

Marianne DiBrino, Ph.D.

Patent Examiner

Group 1640

Technology Center 1600

March 20, 2003

PATRICK J. NOLAN, PH.D.

PRIMARY EXAMINER